

IVANOV, V., polkovnik; MARAKAZOV, A.I., red.; SOMINSKIY, Ye.M.,  
red.

[Aviation equipment of the air forces of capitalist  
countries; a collection of translated articles] Avia-  
tsionnaya tekhnika VVS kapitalisticheskikh stran; sbor-  
nik perevodnykh statei. Moskva, Voenizdat, 1964. 269 p.  
(MIRA 18:9)

SOV/133-58-8-13/30

AUTHORS: Teterin, P.K., Klyuchik, M.I., Candidates of Technical Sciences, and Musorina, I.Ye., Korepanov, S.P., Sominskiy, Z.A., and Elbert, S.M., Engineers

TITLE: The Production of Two-layer Soldered Tubes (Proizvodstvo dvusloynnykh payanykh trub)

PERIODICAL: Stal', 1958, Nr 8, pg 722 - 726 (USSR)

ABSTRACT: The process of production of two-layer soldered tubes was developed by TsNIICM and tested on the Sinarskiy Pipe Plant. The tubes are made from a cold-rolled steel strip coated on both sides with a thin layer of copper. The edges of the strip are bevelled and the strip is formed into a two-layer tube semis with a close contact of the layers and overlapping of edges (Figure 1). The tube semis are passed through an electric furnace, heated to a temperature somewhat higher than the melting temperature of copper. The heating and cooling is done in a protective atmosphere. During the heating, soldering of the layers along the whole contact surface takes place. Thus, the manufacturing process consists of four main operations: copper coating of strip, bevel cutting of edges, forming of strip into tube semis and soldering. This kind of tube is being produced within a range of diameters from 6 to 16 mm with

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the wall thicknesses from 0.6 to 0.9 mm. Low-carbon, mild steel (08) cold-rolled strip, 0.3 - 0.45 mm in thickness supplied in an annealed state in coils of a width corresponding to the required diameter of the tubes is used as a starting material. The strip is electrolytically coated with copper to a thickness of  $4\mu$ ;  $1\mu$  of copper is deposited from the cyanide electrolyte and  $3\mu$  from an acid electrolyte. The coating process is continuous (Figure 2, table). The speed of strip through the electrolytic baths varies from 2.85 to 9.65 m/min, depending on its width. Cutting of edges is done in one pass without liquid cooling of knives. The rate of cutting up to 65 m/min (Figures 3 and 4). Forming of strip according to scheme shown in Figure 5 is done on a continuous 14-stand mill (Figure 6) produced by TsKBIM TsNIITMASH at a rate of 30-45 m/min. Formed semis are cut into a measured length (14 100 mm). Lots of 30 semis are passed for soldering in an electric resistance furnace (Figure 7) consisting of two chambers: heating and cooling. The temperature of the heating chamber is maintained at 1130 - 1140 °C. The rate of

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passage through the furnace varies from 0.78 to 2.0 m/min, depending on the tube diameter. Protective atmosphere is obtained from charcoal gas producer ( $\text{CO}$  31-37%,  $\text{H}_2$  11%,  $\text{CH}_4$  0.2-0.7%,  $\text{CO}_2$  1-4%, humidity 7-10 g/m<sup>3</sup>). In order to retain a uniform distribution of copper on the surface of tubes during soldering, the latter are coated with a thin layer of a special coating material (not specified) before soldering. It is stated that the mechanical properties of tubes are similar to those of seamless tubes from mild steel (tensile strength 38-42 kg/mm<sup>2</sup>, relative elongation 24-30% and pass the hydraulic test according to GOST 301-50). It is pointed out that the process of production of the above tubes is already introduced into practice. It presents significant, technical and economic advantages in comparison with the drawing process. Such tubes can replace

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successfully steel seamless tubes as well as copper and brass tubes, thus providing a large saving of non-ferrous metals.

There are 7 figures and 1 table.

ASSOCIATION: TsNIICHI and Sinarskiy trubnyy zavod (Sinarskiy Pipe Plant)

Card 4/4

1. Pipes---Production    2. Steel--Coatings    3. Furnaces--Appli-  
cations

POPOV, Andrey Dmitriyevich; SOMINSKIY, Zel'man Abelevich; KHAKHALIN, Boris Dmitriyevich; EL'BERT, Semen Moiseyevich; FILIPPOV, A.S., kand. tekhn. nauk, retsenzent; DUGINA, N.A., tekhn. red.

[Continuous pouring of cast iron] Nepreryvnoe lit'e chuguna. Moskva, Mashgiz, 1961. 110 p.  
(Continuous casting) (Cast iron) (MIRA 14:11)

BISK, M.B.; SOMINSKIY, Z.A.; SHVEYKIN, V.V.

Tube drawing with self-centering mandrels on rectilinear-type mills.  
Stal' 23 no.6:536-540 Je '63. (MIRA 16:10)

1. Sinarskiy trubnyy zavod i Ural'skiy politekhnicheskiy institut.

L 13052-66 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) MJW/JD/HW

ACC NR: AP5027911

SOURCE CODE: UR/0133/65/000/011/1021/1023

AUTHOR: Sominskiy, Z. A.; El'bert, S. M.; Bisk, M. B.; Potopayev, A. P.; Kazachkov, B. M.; Borodin, A. I.; Chistyakov, V. G.

ORG: none

TITLE: Parameter refinement in the hot working of tubes made from Kh18N10T, 30KhGSA and Kh5M steels  
44.53 14 15 16

SOURCE: Stal', no. 11, 1965, 1021-1023

TOPIC TAGS: tool steel, metal tube, plastic deformation

ABSTRACT: Optimum preheating schedules are established for the subsequent hot working of tubes made of Kh18N10T steel. Care was taken to hold the mandrel temperature below 600°C in order to preserve the useful tool life. Thermocouples were placed in to various portions of the mandrel and the temperatures measured for varying conditions. All tubes were drawn to 100 m air blast, water-air spray mixture and water spray cooling was employed. A mixture of zinc oxide and graphite was used as a lubricant. Data are presented for tubes drawn to 40, 50, 60 and 70 m after various preheat temperatures (between 80 and 250°C) and for the cooling methods discussed above. Data on the change in mandrel temperature showed a large degree of variation (310 to 510°C) increasing with draw length and preheat temperature. The cooling efficiency also was

UDC: 621.774.39

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ACC NR: AP5027911

a significant factor, the highest cooling rate being achieved with water spray cooling. For Kh18N10T steel, the preheat temperature recommended was between 150-200°C. The other phase of the study dealt with the determination of optimum temperature intervals for the hot deformation of 30KhGSA and Kh5M steels. Mechanical property data were obtained in the form of dynamic bend resistance as a function of temperature of testing (ambient temperature to 700°C) for Kh5M and impact resistance as a function of temperature of testing (20-600°C) for 30KhGSA. Also the fracture appearance was analyzed in both cases. The plasticity of Kh5M steel increased up to the temperature range of 300-400°C where it remained constant and subsequently rose again. The transition from ductile to brittle fracture took place at temperatures of about 40-60°C. The explanation proffered for the retardation in rise of plasticity in the range 300-400°C was dislocation solute interactions (C and N especially). This Cottrell type cloud retarded the motion of dislocations. At higher temperatures, the ductility of the steel increased due to thermal activation assisting the release of dislocations from their C and N atmospheres. For 30KhGSA steel, the impact strength rose with temperature to 150°C where it reached a maximum at 150-200°C and subsequently dropped, reaching another peak at about 400°C. Thereafter, the drop became very sharp and at 500°C the value was the same as for room temperature. Above 550°C, a sharp rise in impact strength occurred as a function of temperature. Again Cottrell cloud was used to explain the leveling off of impact strength at 400-550°C. Alloying elements which combine chemically with the solute C and N atoms offset this behavior; this explains the higher

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ACC NR: AP5027911

plastic properties of Kh5M. Considering the effect mentioned, it was concluded that the optimum working temperature interval for Kh5M should be 200-300°C, and 100-200°C for 30KhGSA. Thus the optimum preheating temperatures in the inductor should be 100-200°C and 60-120°C respectively. The tool life was considerably lengthened by following the above hot working parameters. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 11/

SUBM DATE: 00/

ORIG REF: 002/

OTH REF: 002

Card

3/3

POLIVANOV, A.A., vetvrach; SOMINSKIY, Z.F., dotsent; KIRILLIN, V.M.,  
glavvetvrach

Some materials on the epizootology and clinical aspects of  
Aujeszky's disease in cattle. Veterinariia 36 no.4:29-31 Ap  
'59. (MIRA 12:7)

1.Zaveduyushchiy otdelom Ul'yanevskoy oblvetbaklaboraterii (for  
Polivanov). 2.Ul'yanovskiy sel'skokhozyaystvennyy institut (for  
Sominskiy). 3.Cherdaklinskiy rayon, Ul'yanovskaya oblast' (for  
Kirillin).  
(Ul'yanovsk Province--Pseudorabies)

LOVINSKY, I.A.; LUK'YAN, I.A.; Mikhlin, A.I.; Zhuravskiy, Ya.S.

Isotopic effects in the dissociation of carbon dioxide in a silent electric discharge. Zhur.fiz.khim. 38 no.8:2072-2076 Ag '64.

(MIRA 18:1)

1. Moskovskiy universitet imeni M.V.Lomonosova, Khimicheskiy fakul'tet.

AID P - 5594

Subject : USSR/Engineering

Card 1/1 Pub. 107-a - 6/12

Authors : Somkin, L. N., Eng. Ya. S. Timofeyev, Eng. and V. G. Khoroshaylov, Eng.

Title : Welding of turbine nozzle made of EI-618 alloy, with ceramic flux.

Periodical : Svar. proizv., 11, 23-25, N 1956

Abstract : The authors describe the procedure and technique of automatic welding of turbine nozzle (diaphragms) made of EI-618 alloy with the FZh-1 ceramic flux, developed specially for the purpose, and the EI-400 electrode. Five photos (including 1 macro and 1 micro-structure) and 1 table of components of the FZh-1 flux; GOST standard; 6 Russian references (1951-55).

Institution : Not given.

Submitted : No date

*Somkin L.N.*

SUBJECT: USSR/Welding

135-1-4/14

AUTHORS: Timofeyev, Ya.S., Eng.; Somkin L.N., Eng.; Khoroshaylov, V.G.,  
Candidate of Technical Sciences.

TITLE: Welding assemblies and parts of aluminum alloy AV. (Svarka  
uzlov i detaley iz aluminievogo splava marki AB)/

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 1, pp 13-15 (USSR)

ABSTRACT: The aluminum alloy AMU (AMTs) having proved to be of no sufficient strength for long service, the authors' plant tried the aluminum alloy AB (ГОСТ 4784), composed of 0.2-0.6 % Cu, 0.45-0.09 % Mg, 0.15-0.35 % Mn, 0.5-1.2 % Si, remainder Al; after hardening and aging its mechanical properties are:  
 $\sigma_B = 32 \text{ kg/mm}^2$ ;  $\delta = 8\%$ .

After trying the alloys AK, AB, B61, and B61K, it was found that the most advantageous welding rod material for both oxy-acetylene welding and argon - arc welding is the alloy AB in form of strips. Preliminary annealing is necessary. Welding with alloy AB in argon gives safe butt joints between tubes and flanges, provided the parts are forged and the distance

Card 1/2

MUSTAFINA, A.M.; SOMKIN, M.I.

Determining the manshift output of an excavator. Trudy  
Inst. gor. dela AN Kazakh. SSR 18:21-24 '65.

(MIFA 18:12)

MUSTAFINA, A.M.; ISAYEV, M.A.; SOMKIN, M.I.

Potentialities of increasing excavator efficiency at the Sokolovka mine (Sokolovka-Sarbay Mining and Ore Dressing Combine). Trudy Inst. gor. dela AN Kazakh. SSR 12:11-12

Improving the technology of waste piling at mines of the Sokolovka-Sarbay Combine. Ibid. 160-77

(MIRA 18:12)

SOMAI, A.

"Tasks for Hungarian State Railways in 1953." (p.71). CUKORIPAR (Cukoripar és a Mezőgazdasági Ipari Tudományos Egyesület) Budapest. Vol 9, No 5, Feb. 1953.

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

CONT, 1.

Classification of trunks on the basis of growth and development. p. 62,  
(AF 956, Budapest, Hungary), Vol. 3, No. 3, Apr. 1961.

EC: Monthly List of East European Accessions, (EEAL), 13, Vol. 4,  
No. 4, May 1966, Incl.

SOMKUTI, E.

SOMKUTI, E. Afforestation in the Soviet Union. p. 239

Vol. 8, no. 5, May 1956

AGRATUKOMANY

AGRICULTURE

Budapest, Hungary

So: East European Accession, Vol. 6, No. 3, March 1957

SOMKUTI, Elemer, dr., a mezogazdasagi tudomanyok kandidatusa

Remark about Dr. Laszlo Szonyi's article entitles "Data on the growth in thickness of some tree species." Erdo 11 no.12:572-574 D '62.

1. Erdomernoki Foiskola igazgathelyettese, Sopron.

SOMKUTI, Elemer, dr., a mezogazdasagi tudomanyok kandidatusa

Frenc Lesenyi, 1887-1962; obituary. Erdo 11 no.11:494-496 N '62.

1. Erdesseti es Faipari Egyetem igazgatohelyettese, Sopron.

SOMKUTI, Jeno, dr.; SZEKELY, Arpad, dr.

Sarcoma of the gallbladder. Magy. Sebész. 15 no.1:75-77 F '62.

1. A fovearosi Janos korhaz Sebészeti Osztalyanak es II Belgyogyaszati Osztalyanak kozlemenye.

(SARCOMA surg) (GALLBLADDER neopl)

S. W. L.

A cable fault detector, an innovation in Antal Galoczky. p. 1h.  
(1957) Műt. Hírl. 4, no. 10, Sept. 1957, Budapest, Hungary)

St: Monthly list of East European Accessions (MEL) 1. vol. 4, no. 1, Dec. 1957,  
tel.

GERGELY, Rezső, Dr.; CSILLAG, Antal, Dr.; JAKABFFY, Dezső, Dr.; SOMKUTI, Jeno, Dr.

Nitrous oxide narcosis. Orv. hetil. 99 no. 44:1540-1543 2 Nov 58.

1. A Fovarosí János Korház (igazgató: Tóko József dr.) Sebészeti Osztálynak (először: Gergely Rezső dr.) közleménye.

(NITROUS OXIDE, anesth. & analgesia  
clin. evaluation, indic. & compl. (Hun))

GYORGY, L.; SOMKUTI, T.; KELEMEN, B.; HORHELY, L.

The problem of ergotoxin-adrenaline synergism and antagonism; the effect of general anesthesia. Acta physiol. hung. 14 no.3:287-300 1958.

1. Institute of Pharmacology, Medical University, Budapest.

(ERGOT ALKALOIDS

ergotoxine - epinephrine synergism & antag., exper. in cats  
& eff. of anesthetics)

(EPINEPHRINE

epinephrine - ergotoxine synergism & antag., exper. in cats  
& eff. of anesthetics)

(ANESTHETICS, eff.

on exper. on epinephrine - ergotoxine synergism & antag.  
in cats)

GYORGY, L.; BORBELY, L.; KELEMEN, B.; SOMKUTI, T.

The adrenergic properties of ergotoxin. Acta physiol. hung. 14 no.4:391-398  
1958.

1. Pharmakologisches Institut der Medizinischen Universität, Budapest.  
(ERGOT ALKALOIDS, eff.  
ergotoxin, paradoxical adrenergic actions (Ger))  
(SYMPATHETIC NERVOUS SYSTEM, eff. of drugs on  
same)

GYORGY, L.; BORBELY, L.; KERTESZ, M.; SOMKUTI, T., with the technical assistance of E. Seress

Pharmacology of a new spasmolytic drug. Acta physiol. hung. 15 no.2: 189-199 1959.

1. Institute of Pharmacology, the Medical University, Budapest.  
(PAPAVERINE, related cpds.  
6,7-dimethoxy-1-(3,4-dimethoxyphenyl)-isoquinoline  
pharmacol.)

SOMKUTY, L.

SOMKUTY, L. - Practical experiences with measurements made with a new cable detector. p 137, Vol. 4, no. 5, May 1956  
VILLAMOSJAG (Magyar Elektrotechnikai Egyesulet)

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

VERMES, Laszlo; SOMLAI, Jozsef

Development of the finishing technique of shoe upper leathers.  
Bor cipo 10 no.2:41-43 M\* '60.

1. Tancsics Borgyar.

SOMLAI, Oszkar (Budapest)

Structural build-up of the innovator movement at "Egyesult Izzo"  
(Tungsram). Ujit lap 13 no.23:15 D '61.

1. Az Egyesult Izzo Kozponti Ujitasi Irodajanak vezetoje, Budapest.

SOMLAI, T.

"Legal systems of patents, agreements of the Union; a lecture."

p. 12 (Ujitok Lapja) Vol. 9, no. 22, Dec. 1957  
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

SOMLAI, Tibor

Modern paint-removing agents. Gepgyartastechn 2 no.12:458-459  
D '62.

1. Magyar Allamvasutak Anyagvizsgalo Fonokseg.

SOMLAY, Tibor

Fight against corrosion. Vasut 13 no.8:20-21 Ag '63.

1. MAV Anyagvizsgalo Fonokseg helyettes vezetoje.

SOMLAY, Margit

"Population statistics" by A.M. Merkov. Reviewed by Margit Somlay. Stat szemle 38 no.4:432 Ap '60.

SOMLAY, Tibor

Corrosion; an enemy of metals. Vasut 13 no.1:23-24 30 Ja '63.

1. Magyar Allamvasutak Anyagvizsgalo Fonokseg helyettes vezetoje.

SOMLAY, Tibor, okleveles vegyeszmernok

An account of the Days for Testing Materials in Transportation.  
Kozl tud ~~sz~~ 13 no.2:90-92 F '63.

1. MAV Anyagvizsgalo Fonokseg helyettes vezetoje.

SOMLEV, O.; MOINOV, L.

"Some experiments with Bulgarian constructed electromagnetic couplings."

TEZHKA PROMISHLENOST, Sofia, Bulgaria, Vol. 8, no. 5, Mar. 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, <sup>Sept.</sup> Jun 59,  
Unclass

SOMLEV, P.

"Recommendation for Using V.A. Kolesov's Blades; Data Furnished by P.P. Grudev, Soviet Technical Scientist." p. 30,  
(TEZHKA PRAMISHLENOST, Vol. 3, No. 1, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4  
No. 5, May 1955, Uncl.

SOMLEV, P., inzh.

Machine building in Bulgaria. Nauka i tekhnika mladezh 15 no.10:1-2  
0'63.

1. Direktor na Nauchno-izsledovatel'skii i proektokonstruktorski institut za metaloobranotvashti mashini i instrumenti, i chlen na Redaktsionnata kolegiia, "Nauka i tekhnika za mladezhta".

SOMEL, P., in.

Bulgarian metal-cutting machines at the "Bulgaria Is Building  
Socialism" Exhibition in Moscow. Mashinostroene 12 no. 10:  
38-40 0'63.

SOMLEV, P.

SOMLEV, P. Types of bearings for precise spindles in metal-processing machines and repairing and servicing them. p.44.

Vol. 5, no. 3, 1956, TEZHKA PROMISHLENOST, SOFIYA, BULGARIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956.

SOMLEV, P.

Possibilities for installing metal-cutting machines without a foundation. Colorimetric determination of small quantities of chromium to cast iron and steel ( up to 0.15 per cent).

pages 36-40 (TEZHKA PROMISHLENOST) Vol. 6, no. 7, July 1957,  
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. No. 3,  
March 1958

SOMLEV, P., inzh., nauchen sutrudnik

Modernization of metal-cutting machines. Tekh delo 13  
no.428:1 26 My '62.

1. Nauchnoissledovatel'ski institut po mashinostroene imetalooobra-  
botvane.

SGOLEV, P., inzh., TERZIISKI, Iv., inzh.; VELEV, A., inzh.; VLADIMIROV, A., inzh.

Classification and specifications of metal-cutting tools.  
Mashinostroyeniye 12 no.2:7-11 F 1963.

SOMLEV, P., inzh.; ~~W~~LEV, A.; TERZIISKI, Iv.; SIMEONOV, St.; POPOV, D.

Discontinuation and redistribution of the obsolete lathes  
S5A and S8. Mashinostroene 11 no.5:3-5 My '62.

1. Postolonen konsultant, "Mashinostroene" (for Somlev).

SOMLEV, P. inzh.

Machine tools in Bulgaria. Stan. i instr. 35 no. 2:2-10 F'64  
(MIRA 17:3)

1. Direktor Nauchno-issledovatel'skogo i proyektno-konstruk-  
torskogo instituta metallorazhreshchikh stankov i instrumentov,  
g. Sofiya.

Distr: 4E2d(b)

430/60.

γ 546.33' 131 : 537.531.8

Dependence of photoelectric current on the concentration of F centres in reorganized NaCl crystals. I. Tarján, R. Voszka, A. Somló. *Magyar Fizikai Folyóirat*, Vol. 8, 1960, No. 1, pp. 21-26, 5 figs., 3 tabs.

To complete previous measurements by Glaser and Lehfelddt, natural sodium chloride crystals and material crystallized from analytically pure melt, subsequently tem-

pered, were studied.  $9 \times 9 \times 2.5$  mm lamellae, cut from the crystals, were irradiated in several stages with an X-ray tube having a beam current of 85 kV and 5 mA. The F-centre concentration of the crystals was in every case smaller than  $3 \cdot 10^{16} \text{ cm}^{-3}$ . After the single stages of irradiation, the crystals were compared with a non-irradiated reference crystal at room temperature; absorption was measured with light of 440-470 mμ wavelength and the photocurrent determined after applying 600 V voltage. The measurement of the photocurrent of the crystals showed a strong maximum, but at a different location for each crystal. The product of the quantum efficiency and displacement per unit field intensity was determined from the recorded curves; in the studied ranges of comparatively small concentrations the product

may be described by the function  $\eta = \frac{1}{A + BN}$ , where

the values of the constants characterizing the structural properties of the particular crystals are  $A = \frac{N\sigma}{\sigma\eta\lambda}$ ,  $B = \frac{\sum \sigma_i}{\sigma\eta\lambda}$

The difference between the A and B values of natural and artificial crystals can probably be explained by the crystallization taking place under divergent conditions. Detailed results of measurements are given.

1-XR  
1-XR(MS)  
1-FJP(C)

TARJAN, I.; VOSZKA, R.; SOMLO, A.

The effect of preheat treatment on the photoconductivity of X-ray  
radiated NaCl crystals. Acta phys Hung 11 no.1:59-69 '60.

(EEAI 9:10)

1. Arztlisches Physikalisches Institut, Budapest. Vergelegt von  
Z.Gyulai.

(X-rays)	(Photoconductivity)
(Crystals)	(Salt) (Color centers)

1911, 1. 1911

(Path. physiol. Inst. 1. of Budapest)

"Method for Determination of the Length of Isometric and Isotonic Contraction of the Ventricle.

Z. Kreisforsch. 1951 40/19-20(585-592)  
Abstr. Expt. Med. 11, Vol. 5, No. 7, p. 811

UNGHVARY, L.; SOMLO, E.; TAMAS, G.

Oscillometry of pulse and cardiac output in hypertonia. Orv. hetil.  
93 no. 38:1094-1095 21 Sept 1952. (CLML 23:5)

1. Doctor for Ughvary and Somlo. 2. Institute of Pathophysiology  
(Director -- Prof. Dr. Jozsef Sos).

SOMLO, Erno, dr.

A new method in the treatment of paroxysmal auricular fibrillation.  
Orv. hetil. 102 no.17:783-785 23 Ap '61.

1. Orvostovábbkepzo Intezet, EKG Osztaly.

(AURICULAR FIBRILLATION ther) (QUINIDINE ther)  
(PROCAINE AMIDE ther)

SOMLO, Gy

37. Some considerations on the selection of a suitable technology for the industrial production of monochlorobenzene. / Gy. Somló, Magyar Kémikusok Lapja, Vol. 11, 1956, 2-3, pp. 87-93, 2 figs., 1 tab

In the presence of ferric chloride catalyst the chlorination of benzene yields monochlorobenzene as chief product and besides the utilizable *p*-dichlorobenzene large amounts of polychloro benzenes as by-products. The process consists essentially of three operations: chlorination, neutralization and distillation. The economy of the process is determined by the ratio monochlorobenzene to polychlorobenzene production and not by the conversion of benzene to monochlorobenzene. It is evident that the chlorination step determines economical plant operation. Continuous operation yields lower-chlorinated products (0.2-0.4 mols of chlorine per molecule of benzene) than the batch process and therefore in relation to the product a relatively large amount of benzene must be recirculated. The Demény-Sipos continuous process ensures a high monochlorobenzene-polychlorobenzene ratio and furthermore has several important advantages. Benzene presaturated with chlorine to 0.3 mol of chlorine per mol of benzene in an adsorption column is fed into the chlorinating apparatus packed with iron sawdust where it is reacted with chlorine in a homogeneous phase. The hydrochloric acid overhead product of the reactor is absorbed into water after its benzene content has been stripped off. The liquid chlorinated products of the reactor are fed into a hydrogen chloride stripping tower where

*Somlo, Gy.*

they are freed from their absorbed hydrogen chloride content. The product from the stripping tower is fractionated and the benzene fraction is returned to the presaturator. This presaturation process was found advantageous from the economic viewpoint, moreover it eliminates explosion hazards since the hydrogen contamination present in the utilized hydrogen chloride gas can be discharged with the tail gas of the presaturator column.

*pm 2/2*  
*mtt*

*Somlo, Gy.; Gloetzer, J.; Simsek, R.*  
APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652410009-3"

Economical use of energy bearers in Hungary's chemical industry. p. 341

MAGYAR KEMIKUSOK LAPJA. (Magyar Kemikusok Egyesulete)  
Budapest, Hungary. Vol.14, no.9, September 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.11  
November 1959  
Uncl.

Schick, G. H. H. H.

The establishment of chemical industry installations in the open air.  
Hungary, 1960, no. 3-342, Ag '60

1. Vegyimuveket Tervezo Vallalat.

SOMLO, Gyorgy; KOVATS, Gabor

Some problems relating to general planning in the chemical industry.

I. Magy kem lap 17 no.10:433-440 0 '62.

1. Vegyimuveket Tervezo Vallalat.

SOMLO, Gyorgy; KOVATS, Gabor

Certain problems of general planning in chemical industries. II.  
Magy kem lap 17 no.11:481-487 N '62.

1. Vegyimuveket Tervezo Vallalat.

SOMLO, Gyorgy; LAZICZIUS, Akos

Achievements of applying general design principles in the design of pigment plants. Magy kem lap 18 no.8:357-366 Ag '63.

1. Vegyimuveket Tervezo Vallalat.

HUNGARY

SZABO, Mihaly, Dr. SOMLO, Gyorgy, Dr. SEPP, Jozsef, Dr; City Council of Mako, Hospital and Ambulant Services, Laboratory (chief physician: SZABO, Mihaly, Dr), and Medical Ward (chief physician: TISZAI, Aladar, Dr) (Makoi Varosi Tanacs Korhaza es Rendelo Intezete, Laboratorium es Belgyogyaszati Osztaly).

"Methodological Problems of the Demonstration of Bacteriuria. The Significance and Value of the So-Called Screening Tests."

Budapest, Orvosi Hetilap, Vol 107, No 52, 25 Dec 66, pages 2449-2453.

Abstract: [Authors' Hungarian summary] The more important screening methods (nitrate tests, TTC test, etc.) used in quantitative bacteriology involving the urine are surveyed and the results of comparative studies, using these methods, are reported. Significant bacteriuria was correctly indicated by the simple Gries-Ilosvay type of nitrite test in 55 per cent, by the Sleight type modification of the nitrite test and by the stroke plate technique in 98.5, and by the TTC test in 90 per cent of the cases. The combination of a chemical test and of a semiquantitative culture procedure is considered to be the most suitable method. 3 Hungarian, 30 Western references.

SOMLO, J.

A method for the synthesis of optimum systems by means of  
digital computers. Meres automat 11 no.12:392 '63.

SOMLO, Janos, okleveles gepeszmernok

Once again on the kinetics of hydromotors controlled by axial pistons. Gep 15 no.9:367-373 S '63.

1. Magyar Tudomanyos Akademia Automatizalasi Kutato Laboratorium.

1. G. ... ..

1. ... ..  
Research Institute of Automation of the Hungarian Academy  
of Sciences, Budapest.

SOMLO, J., Tudományos munkatárs

An account of the 9th Conference on Electronics, Telecommunication,  
Automation and Nucleonics. *Mérés automat* 13 no.4:110 '65.

1. Research Institute of Automation of the Hungarian Academy  
of Sciences, Budapest.

SOMLO, Janos

Harmonic analysis of sectionally linear nonlinearities. Pt.2.  
Meres automat 13 no.2/3:40-45 '65.

1. Research Institute of Automation of the Hungarian Academy of  
Sciences, Budapest.

L 44633-66 T IJP(c)

ACC NR: AP6033126

SOURCE CODE: HU/0012/65/013/009/0073/0280

AUTHOR: Somlo, Janos---Shomlo, Y. (Staff scientist) 26.

ORG: Research Institute for Automation, MTA (MTA Automatizalasi Kutato Intezet) B

TITLE: General method for the determination of descriptive functions. Part 1:  
Symmetrical oscillations

SOURCE: Meres es automatika, v. 13, no. 9, 1965, 273-280

TOPIC TAGS: mathematic function, oscillation

ABSTRACT: A general method is described with the aid of which the harmonic linearization of nonlinear processes can be effected in the case of any nonlinear characteristic. Symmetrical oscillations are discussed and equations were presented for the determination of the coefficients of the descriptive functions in cases of one- or two-value characteristics. By employing the tables presented in the appendix, numerical calculations can be considerably reduced. Examples were presented to illustrate the techniques involved. Orig. art. has: 10 figures, 2 formulas and 2 tables. [Based on author's Eng. abst.] [JPRS: 33,541]

SUB CODE: 12 / SUBM DATE: 01Apr64 / ORIG REF: 003 / SOV REF: 002  
OTH REF: 002

Card 1/1 blr

UDC: 62-50:5.7.5

0920 0680

L 44030-66 EWT(1)

ACC NR: AP6032680

SOURCE CODE: HU/0012/65/013/012/0370/0378

AUTHOR: Somlo, Janos--Shomlo, Ya. (Staff scientist)

26  
B

ORG: Research Institute for Automation, MTA (Magyar Tudományos Akadémia Automatizálási Kutató Intézet)

TITLE: General method for determining the characteristic function. Part 2:  
Non-symmetrical oscillations 2/

SOURCE: Meres es automatika, v. 13, no. 12, 1965, 370-378

TOPIC TAGS: oscillation, mathematic function

ABSTRACT: [Part 1 was published Ibid., 13, no. 9, 1965, pp. 273-280] This part discusses the harmonic linearization in the case of non-symmetrical oscillations covering both mono- and bi-functional characteristic curves. Examples were presented to illustrate the calculations involved and in an Appendix (p. 377) a table was given from which some frequently required values could be directly obtained. The author thanks Doctor, Professor Csaki Frigyes for his attention and advice. Orig. art. has: 6 figures, 1 formula and 1 table. [JPRS: 34,778]

SUB CODE: 12 / SU DATE: 01Apr64

Card 1/1

blg

UDC: 62.50.517.5

ERLOS, Zoltan, dr.; SOMLO, Marianna

ACTH in the therapy of infantile meningeal tuberculosis.  
Gyermekgyógyászat 7 no.4:113-115 Apr 56.

1. A Budapesti Orvostud. Egyetem I. sz. Gyermekklin. (Igaz.:  
Dr. Gagesi-Kiss, Pal egyet. tanar, akad.) kozl.

(TUBERCULOSIS, MENINGEAL, in inf. & child  
ther., ACTH (Hun))

(ACTH, ther. use  
tuberc., meningeal, in inf. & child. (Hun))

KISS, Bela (Nagykanizsa); SIKORA, Janos (Budapest); SOMLO, Pal (Budapest);  
TOLCSVAI, Geza (Budapest)

Forum of innovators. Ujit lap 15 no.13:30 10 JI '63.

SOMLO (Steinberger), Zoltan, dr.; CSAPO, Gabor, dr.; SZUCS, Zsuzsanna, dr.

Neurological complications of diabetes mellitus. I. Diagnostic problems in rare manifestations. Orv. hetil. 103 no.8:351-354 25 F '62.

1. Szegedi Orvostudományi Egyetem, Ideg, Elmeklinika és I Belklinika.

(RETINA dis) (DIABETES MELLITUS compl)  
(NEUROLOGICAL MANIFESTATIONS)

SZUCS, Zauzsanna, dr.; CSAPO, Gabor, dr.; SOMLO (Steinberger), Zoltan, dr.

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no.11:496-498 18 Mr '62.

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LAKATOS, L.; BENCZE, Gy.; SOMOGYI, L.; SOMLO, Z.

Neurological and electroencephalographic studies in systemic lupus erythematosus and rheumatoid arthritis. Acta med. acad. sci. Hung. 21 no.3:247-255 '65.

1. First Department of Medicine, and Department of Neurology and Psychiatry, University Medical School, Szeged. Submitted July 15, 1964.

Experiences with establishment of norms and our further tasks in the mixed wood industry. p. 274. FAIPAR. Budapest. Vol. 5, no. 10, 1955.  
Current problems of stove production. p. 276.  
Development in the lumber industry in the People's Republic of Rumania. p. 280.

URCH: East European Accessions List (EEAL), IC, Vol. 5, No. 2, Feb. 1955.

FOLDI, M.; KOVACH, A.G.B.; PAPP, N.; KOLTAY, Edit; SOMLYAI, L.

Reflex increase of sodium excretion elicited by posterior pituitary extract (Piton). Acta physiol.hung. 17 no.4:407-427 '60.

1. 1st department of medicine, Department of Experimental Research,  
Medical University Budapest, Institute of Experimental Medicine,  
Hungarian Academy of Sciences, Budapest.

(PITUITARY GLAND, POSTERIOR extracts)

(SODIUM urine)

FOLDI, Mihaly, az orvostudományok doktora; KOVACH, Arisztid, az orvostudományok kandidátusa; PAPP, Miklos, az orvostudományok kandidátusa; KOLTAY Edit; SOMLYAI, Laios

Naturiuresis of central origin caused by the extract of the hypophysis posterior lobule (piton). Biol orv kozl MTA 11 no.2/3:293-305 '60.  
(EEAI 10:5)

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikája és Kísérleti Kutató Laboratóriuma, a Magyar Tudományos Akadémia Kísérleti Orvostudományi Kutató Intézete.

(BLOOD)

(PITUITARY BODY)

(SODIUM)

FOLDES, Janos, dr.; SOMLYAI, Lajos, dr.

Results of the treatment of hyperthyreosis. Orv.hetil. 101 no.43:  
1525-1530 23 0 '60.

1. Budapesti Orvostudományi Egyetem, I. sz. Belklinika.  
(HYPERTHYROIDISM ther)

SOMLYAKOV, V., inzhener.

Semi-mechanized production line for juices. Prom.koop.no.5:17 My '56.  
(MIRA 9:9)

1.Pishchekhimotdel oblpromsoвета.  
(Dnepropetrovsk--Fruit juices)

SOMLYO, Ferenc

Hungarian experiences with the use of chemicals  
on maize. Mezogazd techn 1 no.1:24-25 '61.

SOMLYO, Zsuzsa

Touring Italy by a Trabant. Pt.9. Auto motor 16 no.8:29 21 Ap '63.

SOMLYO, Zsuzsa

Touring Italy by a Trabant. Pt.10. Auto motor 16 no.9:29 6 My '63.

SOMLYOI, B.

The IAR-811, p. (3) of cover, REPULES, (Magyar Onkentes Honvedelmi Szovetseg) Budapest, Vol. 8, No. 13, J ly 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 4, No. 12, December 1956

SOMLYOI, B.

6th International Gliding Competition ends, p. 10, REPÜLES, (Magyar  
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SOURCE: East European Accessions List (EEAL) Library of Congress,  
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SOMLYOI, R.

How does the device for afterburning operate? p. 15, R. FULES, (Magyar  
Onkentes Honvedelmi Szovetseg) Budapest, Vol. 8, No. 13, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 4, No. 12, December 1955

SOMLYOI, B.

New medical instrument for the examination of fliers, p. 16, REFULE,  
(Magyar Onkentes Honvedelmi Szovetseg) Budapest, Vol. 8, No. 13, July  
1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 4, No. 12, December 1958.

SOMMER, P.

A faster method for calculating the weight of forgings. p. 434

STROJIRENSKA VYROBA. (Ministerstvo tezkého strojírenství, Ministerstvo přesného strojírenství a Ministerstvo automobilového průmyslu a zemědělských strojů)  
Praha, Czechoslovakia. Vol. 7, no. 10, Oct. 1959

Monthly List of East European Accessions (EEA1) LC, Vol. 8, No. 12, Dec. 1959  
Uncl.

34

PHASE I BOOK EXPLOITATION

SOV/5799

Unkov, Ye.P., Doctor of Technical Sciences, Professor, Ed.

Sovremennoye sostoyaniye kuznechno-shtampovogochnogo proizvodstva (Present State of the Pressworking of Metals) [Moscow] Mashgiz, 1961. 434 p. 5000 copies printed.

Ed. of Publishing House: A.I. Sirotin; Tech. Ed.: B.I. Model'; Managing Ed. for Literature on the Hot Working of Metals: S.Ya. Golovin, Engineer.

Title: Kuznechno-shtampovoye proizvodstvo v SSSR (The Pressworking of Metals in the USSR) by: A.V. Altyk, D.I. Berezhkovskiy, V.F. Volkovitakiy, I.I. Girsh (deceased), L.D. Gol'man, S.P. Granovskiy, N.S. Dobrinskiy, A.I. Zimin, S. L. Zlotnikov, A.I. Kagalovskiy, P.V. Lobachev, V.N. Martynov, Ye.N. Koshnin, G.A. Navrotskiy, Ya.M. Okhrimenko, G.N. Rovinskiy, Ye.A. Stosha, Yu.L. Rozhdestvenskiy, N.V. Tikhomirov, Ye.P. Unkov, V.F. Shcheglov, and L.A. Shofman; Eds: Ye.P. Unkov, Doctor of Technical Sciences, Professor, and B.V. Rozanov.

Title: Kuznechno-shtampovoye proizvodstvo v ChSSR (The Pressworking of Metals in the Czechoslovak SR) by: S. Burda, F. Hrazdil, F. Drastik, F. Zlatohlavek

Card 1/8

Present State of the (Cont.)

SCI/5799

Z. Kajval, V. Krauz, Z. Kupa, Z. Majer, K. Marvan, J. Novak, J. Olsanal,  
K. Paul, B. Seamer, M. Ranz, J. Cizka, V. Sindelar, and J. Solc; Etc.:  
A. Nejeda and M. Vlk.

PURPOSE: This book is intended for engineers and scientific personnel concerned with the pressworking of metals.

COVERAGE: Published jointly by Mashgiz and SNTL, the book discusses the present state of the pressworking of metals in the USSR and the Czechoslovak Socialist Republic. Chapters were written by both Soviet and Czechoslovak writers. No personalities are mentioned. There are 129 references: 98 Soviet, 16 English, 8 German, 5 Czech, and 2 French.

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BECVAR, J.; KLIKA, R.; SOMMER, B., inz.; SESTAK, Bohdan; KNOFOVEC, L.

Information on metallurgy. Hut listy 16 no.11:829-836 N  
'61.

SOMMER, Boris

Precise perforation of cylindrical holes in die forgings. Stroj vyr  
10 no. 3:139-140. '62.

1. Vitkovické zelezarny Klementa Gottwalda, n.p., Ostrava.

SOMMER, D.

Uranium forging. Hat listy 17 no.2:151-152 P '62.

SOMMER, B., inz.

Present conditions and development of manufacturing the steel  
bottles for gas. Hut listy 17 no.5:318-326 My '62.

1. Vitkovicke zelezarny Klementa Gottwalda, Ostrava-Vitkovice.

KEPKA, M., inz.; PUNCOCHAR, Zd., inz.; VESELY, J., inz.; KECLIK, V., inz.;  
BECVAR, J., inz.; RANT, Pavel, inz.; CHVOJKA, Jan, inz.; SOMMER, B.,  
inz. KALIVODA, A., inz.; HRBEK, A.

Information on metallurgy. Hut listy 18 no.3:207-223 Mr '63.

SOMMER, B., inz.

New method of disk forging. Hut listy 19 no. 2: 136-139  
F '64.

SOMMER, E.

Sommer, E.

Mechanization helped collective farmers in Prestovice to reach the later unit of  
34 koruy. p. (2) of cover.

(Vol. 5, no. 9, May 1955)

MECHANISACE ZEMEDILSTVI

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9,  
Sept. 1955, Uncl.

SOMMER, F.

"Automatic control in a sizing machine."

p. 468 (Textil) Vol. 12, no. 12, Dec. 1957  
Prague, Czechoslovakia

so; Monthly Index of East European Accessions (MEAI) LC. Vol. 7, no. 4,  
April 1958

L 20218-66 E-T(t)/TMT(k) JE/IF  
ACC NR: AT6010344

SOURCE CODE: CZ/0032/65/015/007/0540/0212

AUTHOR: Korinek, M. (Doctor; Engineer); Tmej, J. (Engineer); Sommer, F. 30

ORG: [Korinek; Tmej] Technical Institute of Machinery and Textiles, Liberec (Vysoka skola strojni a textilni); [Sommer] AZNP, Mlada Boleslav

TITLE: Stamping parts of irregular form

SOURCE: Strojirenstvi, v. 15, no. 7, 1965, 540-542

TOPIC TAGS: metal stamping, sheet metal, material deformation

ABSTRACT: The article deals with some methods which can be applied to check whether or not the material selected for manufacturing sheet parts by stamping and the envisaged process promise satisfactory results in series production. Besides model technique, attention should be given to methods based upon evaluation of deformations of grids applied to samples before shaping. This paper was presented by Z. Kejval. Orig. art. has: 8 figures. [JPRS]

SUB CODE: 13, 20 / SUBM DATE: none / OTH REF: 001 / SOV REF: 002

Card 1/1 *7/1/65*

UDC: 621.986;621.979.02;621.002.2 2

CHRUSZCIGKA, Maria; SOMMER, Irena

Dissolution of small amounts of phenol in river and prepared waters. Gosp wodna 23 no.11: 441-444 N°63.

1. Zaklad Ochrony i Uzytkowania Wod, Katowice.